

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Reclamation District No. 0501 Ryer Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
**SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0501 Ryer Island**

Waterway			Bank	Unit Miles
Unit No. 01 Steamboat Slough			Right	6.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Herman Phillips			
Accompanied By	Nicolas Zepeda RD 501			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start		Rating **	A	Issue No.	57
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0501_01_f_2014_57				
Comment Code					
Inspector Comment					
District has the O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	58
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0501_01_s_2012_58				
Comment Code					
Inspector Comment					
RD 501 has emergency supplies in storage.					

No Photos

LM Start		Rating **	A	Issue No.	59
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0501_01_s_2012_59				
Comment Code					
Inspector Comment					
Crew members have been trained and are prepared for a flood.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0501 Ryer Island

No Photos

Looking downstream from levee mile 0.04 -0.31 woody tree growth on the landward levee shoulder and slope.

Page 2 of 33

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.19	Rating **	U	Issue No.	986
LM End	0.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:44766  
DS\_ID:21030  
EP\_NO: 4581  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements.  
FIELD\_STRUCT\_DESC: 6-inch steel pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through levee. Cutoff wall around pipe at center of levee. Pump and gate valve in pump structure on waterward slope. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 4581-1964)  
FS Date: 4/21/2015 1:59:00 PM

LM Start	<b>0.19</b>	Rating **	U	Issue No.	<b>986 (cont)</b>
LM End	<b>0.19</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44766\_58923.jpg



View of crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_44766\_58922.jpg



Subsidence and patch work repair on crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.39	Rating **	M	Issue No.	980
LM End	0.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249197 °	38.249197 °
				-121.603061 °	-121.603061 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32524 DS_ID:21031 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of leaks through the slope. Recommend removing vegetation along pipe alignment for reinspection. Need to contact the owner to clear slope along crossing. FIELD_STRUCT_DESC: 20-inch and 2.5-inch pipes through the levee, both 7.8 feet below the crown. Pump in pump house on landward slope. Pipe exposed along waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.40). FS Date: 6/4/2013					

LM Start	<b>0.39</b>	Rating **	M	Issue No.	<b>980 (cont)</b>
LM End	<b>0.39</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_32524\_58928.jpg



View of crown

Photo 2 of 2 : UCIP\_SP\_2016\_32524\_58927.jpg



Overview of landside. Pump house and power pole visible on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.42	Rating **	M	Issue No.	46
LM End	0.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.248757 °	38.245770 °
				-121.603033 °	-121.602863 °
DWR ID	DWR_RD0501_01_s_2016_46				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.44	Rating **	M	Issue No.	987
LM End	0.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.248519 °	38.248519 °
				-121.602972 °	-121.602972 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41409 DS_ID:21032 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner and ask for emergency contact information and permit number. 8/21/13 Contacted Gas Control Division under the emergency contact No. 1-877-723-3344. Message has been forward to Brian Habersack at 916-859-4700, email: bhabersack@gasbiz.com. FIELD_STRUCT_DESC: 6-inch Steel Gas line through the levee 60-feet below the crown. Markers on both shoulders (Permit No. 17033, 2014). FS Date: 6/4/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_41409\_58931.jpg



Overview of waterside at crossing. Marker on shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.44	Rating **	M	Issue No.	987 (cont)	
LM End	0.44	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.248519 °		38.248519 °
				-121.602972 °		-121.602972 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41409						
DS_ID:21032						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner and ask for emergency						
contact infomation and permit number. 8/21/13 Contacted Gas						
Control Division under the emergency contact No. 1-877-723-3344.						
Message has been forward to Brian Habersack at 916-859-4700, email:						
bhabersack@gasbiz.com.						
FIELD_STRUCT_DESC: 6-inch Steel Gas line through the levee 60-						
feet below the crown. Markers on both shoulders (Permit No. 17033,						
2014).						
FS Date: 6/4/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_41409\_58930.jpg



Overview of landside at crossing. Marker on shoulder.

LM Start	0.53	Rating **	U	Issue No.	44
LM End	5.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.247188 °	38.195012 °
				-121.602900 °	-121.631900 °
DWR ID	DWR_RD0501_01_s_2016_44				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Tall unwanted weeds on the waterside levee section.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_44\_20160329\_00058.jpg



Looking downstream from levee mile 0.04 landside shoulder and slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.68	Rating **	M	Issue No.	18
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.245010 °	38.244523 °
				-121.602955 °	-121.602940 °
DWR ID	DWR_RD0501_01_s_2012_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.70	Rating **	M	Issue No.	988
LM End	0.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.244726 °	38.244726 °
				-121.602900 °	-121.602900 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44643 DS_ID:21089 EP_NO: 2683 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2-inch steel water pipe and 1-inch steel electrical conduit through the levee, both 3.0 feet below the crown. Portion of pipe visible under oleanders on LS shoulder may be part of this crossing. No evidence remains on WS slope. (Permit No. 2683-1959, J. Gosner) FS Date: 4/21/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_44643\_73842.jpg



Pipes visible under oleander on LS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.70	Rating **	M	Issue No.	988 (cont)	
LM End	0.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.244726 °		38.244726 °
				-121.602900 °		-121.602900 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44643 DS_ID:21089 EP_NO: 2683 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2-inch steel water pipe and 1-inch steel electrical conduit through the levee, both 3.0 feet below the crown. Portion of pipe visible under oleanders on LS shoulder may be part of this crossing. No evidence remains on WS slope. (Permit No. 2683-1959, J. Gosner) FS Date: 4/21/2015						

Photo 2 of 2 : UCIP\_SP\_2016\_44643\_73841.jpg



Pipes visible under oleander on LS shoulder.

LM Start	0.70	Rating **	M	Issue No.	71
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.244667 °	38.237470 °
				-121.602967 °	-121.604418 °
DWR ID	DWR_RD0501_01_s_2012_71				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are rodents present in this area, district need to place bait stations in this area.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.97	Rating **	U	Issue No.	989
LM End	0.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.240808 °	38.240808 °
				-121.603628 °	-121.603628 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44655 DS_ID:21034 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Unauthorized PVC pipe. Annular space not grouted. 14-inch pipe open on both ends. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 3.2 feet below the crown. (USACE-1959). 10-inch PVC pipe sleeved through 14-inch with a siphon breaker on the LS shoulder. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.0). FS Date: 4/21/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_44655\_73852.jpg



10-inch PVC pipe sleeved through 14-inch steel pipe on WS slope. No grout identified.

LM Start	<b>0.97</b>	Rating **	U	Issue No.	<b>989 (cont)</b>
LM End	<b>0.97</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_44655\_73851.jpg



Pipes visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2016

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.55	Rating **	U	Issue No.	51
LM End	1.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.232577 °	38.229883 °
				-121.603480 °	-121.603927 °
DWR ID	DWR_RD0501_01_s_2016_51				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the bamboo from the levee section.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_51\_20160404\_00060.jpg



Looking downstream the landside shoulder tall bamboo present on the slope.

LM Start	1.84	Rating **	M	Issue No.	995
LM End	1.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.228373 °	38.228373 °
				-121.604120 °	-121.604120 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47516 DS_ID:21086 EP_NO: 13233 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between pipes not grouted. FPIIB Inspector Herman Phillips will contact owner regarding lack of permit for sand filters. Steel plate partially covers openings between pipes. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.5-feet below the crown. Cutoff wall around pipe at center of levee. Pump and check valve in pump house on waterward slope. Service pole on landward slope. (Permit No. 13233-1982) 8-inch steel irrigation pipe sleeved through 14-inch (under Permit No. 11813-1, 2013). A 1.5 and a 2.5-inch electrical conduit at same location. Siphon breaker on both shoulders. FS Date: 4/21/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_47516\_73857.jpg



Sand filter plant on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.84	Rating **	M	Issue No.	995 (cont)	
LM End	1.84	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.228373 °		38.228373 °
				-121.604120 °		-121.604120 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47516						
DS_ID:21086						
EP_NO: 13233						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Annular space between pipes not grouted. FPIIB						
Inspector Herman Phillips will contact owner regarding lack of permit for						
sand filters. Steel plate partially covers openings between pipes.						
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.5-feet						
below the crown. Cutoff wall around pipe at center of levee. Pump and						
check valve in pump house on waterward slope. Service pole on						
landward slope. (Permit No. 13233-1982) 8-inch steel irrigation pipe						
sleeved through 14-inch (under Permit No. 11813-1, 2013). A 1.5 and a						
2.5-inch electrical conduit at same location. Siphon breaker on both						
shoulders.						
FS Date: 4/21/2015						

Photo 2 of 2 : UCIP\_SP\_2016\_47516\_73856.jpg



8-inch steel pipe with vent/siphon breaker on LS shoulder. Pipe sleeved through 14-inch steel pipe. Electrical conduit visible next to pipe.

LM Start	2.23	Rating **	M	Issue No.	27
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.222758 °	38.222030 °
				-121.603348 °	-121.603303 °
DWR ID	DWR_RD0501_01_s_2012_27				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.32	Rating **	M	Issue No.	60
LM End	6.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.221510 °	38.185722 °
				-121.603458 °	-121.648975 °
DWR ID	DWR_RD0501_01_s_2016_60				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	2.34	Rating **	M	Issue No.	990
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221277 °	38.221277 °
				-121.603505 °	-121.603505 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44683					
DS_ID:21021					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and if so should be done so properly. Discarded pipe on WS slope should be removed.					
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 2.5-feet below the crown. Pump and gate valve in pump house on waterward slope. a 4'X4' concrete distribution box, power pole, and meter on LS toe (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.50).					
FS Date: 4/21/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_44683\_73882.jpg



Pipe visible on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.34	Rating **	M	Issue No.	990 (cont)	
LM End	2.34	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.221277 °		38.221277 °
				-121.603505 °		-121.603505 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44683 DS_ID:21021 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Discarded pipe on WS slope should be removed. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 2.5-feet below the crown. Pump and gate valve in pump house on waterward slope. a 4'X4' concrete distribution box, power pole, and meter on LS toe (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.50). FS Date: 4/21/2015						

Photo 2 of 2 : UCIP\_SP\_2016\_44683\_73881.jpg



Pipe and pumphouse on WS slope.

LM Start	2.40	Rating **	M	Issue No.	40
LM End	2.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.220362 °	38.220362 °
				-121.603915 °	-121.603915 °
DWR ID	DWR_RD0501_01_f_2015_40				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
District has crews scheduled to do trees.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.55	Rating **	M	Issue No.	32
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.218470 °	38.217875 °
				-121.605105 °	-121.605532 °
DWR ID	DWR_RD0501_01_s _ 2012_32				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.67	Rating **	M	Issue No.	34
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.217030 °	38.216408 °
				-121.606303 °	-121.607057 °
DWR ID	DWR_RD0501_01_s _ 2012_34				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.82	Rating **	M	Issue No.	981
LM End	2.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.215351 °	38.215351 °
				-121.608013 °	-121.608013 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32526  
DS\_ID:21022  
EP\_NO: 2742  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Additional notes: pump was running during inspection, 16-inch pipe debris section located on landward side, view of standpipe and support structure on waterward side does not match structure description--need to determine if crossing has been altered.  
FIELD\_STRUCT\_DESC: 16-inch drainpipe through the levee, 3.6 feet below the crown. Cutoff walls around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump house on landward shoulder. Pipe discharges into 48-inch pipe with screw gate on landward side. (Permit No. 2742-1959). Repairs made to pipe and a portion replaced, from landward shoulder to discharge end on waterward side, under Permit No. 15380 (1999). Rock revetment placed on waterward slope. Revegetation in progress on waterside.  
FS Date: 6/4/2013

LM Start	<b>2.82</b>	Rating **	M	Issue No.	<b>981 (cont)</b>
LM End	<b>2.82</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_32526\_58933.jpg



Overview of crown at crossing, looking downstream.

Photo 2 of 2 : UCIP\_SP\_2016\_32526\_58935.jpg



Pump house on landward slope. An abandoned pipe section on landward slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.85	Rating **	M	Issue No.	3
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.214838 °	38.214075 °
				-121.608129 °	-121.608750 °
DWR ID	DWR_RD0501_01_s_2016_3				
Comment Code					
Inspector Comment					
2009 - Rock is starting to unravel, probably from a tree pop-out, hard toe. 2015: No observed changes. [2015 Site ID: STM_18-9_R]					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_3\_20160223\_00003.jpg



USACE 2013 Photo #1

LM Start	2.91	Rating **	M	Issue No.	37
LM End	2.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.214235 °	38.213547 °
				-121.608993 °	-121.609527 °
DWR ID	DWR_RD0501_01_s_2012_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2016

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.00	Rating **	M	Issue No.	62
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.213062 °	38.213062 °
				-121.609823 °	-121.609823 °
DWR ID	DWR_RD0501_01_s _ 2016_62				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs listed at this location.					

No Photos

LM Start	3.04	Rating **	M	Issue No.	2
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.212573 °	38.211596 °
				-121.609760 °	-121.609928 °
DWR ID	DWR_RD0501_01_s _ 2016_2				
Comment Code					
Inspector Comment					
2000 - Slow erosion of lower and mid-slope with rock bench at the low water line. 2015: No observed changes. [2015 Site ID: STM_18-8_R]					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_2\_20160223\_00002.jpg



USACE 2013 Photo #1

LM Start	3.05	Rating **	M	Issue No.	64
LM End	3.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.212358 °	38.212098 °
				-121.610083 °	-121.610112 °
DWR ID	DWR_RD0501_01_s _ 2016_64				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs listed at this locaton.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.12	Rating **	U	Issue No.	984
LM End	3.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.211386 °	38.211386 °
				-121.610189 °	-121.610189 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:42925  
DS\_ID:21026  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorized?). Need to contact owner to coordinate with CVFPB.  
FIELD\_STRUCT\_DESC: 8-inch steel pipe and 1.5-inch steel electrical conduit through the levee, both 2.0 feet below the crown. Gate valve on waterward side. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landside shoulder. Pump on piling structure on waterward slope installed under Permit No. 9880 (1975). Meter pole at landward toe. Pipe exposed along landward slope. Discharge filter on landward slope installed under Permit No. 9880-B (1975).  
FS Date: 6/4/2013

LM Start	<b>3.12</b>	Rating **	U	Issue No.	<b>984 (cont)</b>
LM End	<b>3.12</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_42925\_58942.jpg



View of levee crown at crossing. Single line crack on levee crown.

Photo 2 of 2 : UCIP\_SP\_2016\_42925\_58940.jpg



Station details--gate valve, air vent, and other appurtenances.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.19	Rating **	M	Issue No.	15
LM End	3.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210429 °	38.209974 °
				-121.610503 °	-121.610703 °
DWR ID	DWR_RD0501_01_s_2012_15				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	3.24	Rating **	U	Issue No.	63
LM End	3.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.209811 °	38.209713 °
				-121.610813 °	-121.610882 °
DWR ID	DWR_RD0501_01_f_2012_63				
Comment Code					
MA : Material					
Inspector Comment					
There is firewood and other material placed within the landside easement that need to be removed.					

Photo 1 of 2 : SP\_2016\_RD0501\_169\_63\_20160404\_00061.jpg



Equipment within the landside easement.

LM Start	<b>3.24</b>	Rating **	U	Issue No.	<b>63 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0501\_169\_63\_20160404\_00066.jpg



Firewood stored within the landside easement.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.25	Rating **	M	Issue No.	41
LM End	3.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.209548 °	38.208632 °
				-121.610882 °	-121.611275 °
DWR ID	DWR_RD0501_01_s_2012_41				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.33	Rating **	M	Issue No.	43
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.208468 °	38.208292 °
				-121.611348 °	-121.611437 °
DWR ID	DWR_RD0501_01_s_2012_43				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees 5-feet above ground, can't see levee slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_43\_20160223\_00005.jpg



Woody tree growth on levee slope and shoulder of the landside. No new photo taken.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2016

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.44	Rating **	U	Issue No.	66
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.206953 °	38.204293 °
				-121.612042 °	-121.613052 °
DWR ID	DWR_RD0501_01_s_2016_66				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild berries from the levee slope and toe landward.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_66\_20160404\_00067.jpg



Looking downstream from the landside slope levee mile 3.44 wild berries present along the slope and toe.

LM Start	3.46	Rating **	M	Issue No.	982
LM End	3.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.206726 °	38.206726 °
				-121.612135 °	-121.612135 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32529 DS_ID:21028 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe was running during inspection. Crack on crown surface could be associated with pipe vibration during operation. Need to determine owner of crossing. Owner will need to clear vegetation along pipe alignment on landward side to prevent levee inspection along crossing. FIELD_STRUCT_DESC: 20-inch pipe through the levee, 2.2 feet below the crown. 1.5-inch electrical conduit along side 20 inch pipe. Pump on platform on waterward side. Walkway present on waterward side. Stand pipe located on landward toe. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.70). FS Date: 6/4/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32529\_58954.jpg



Single line crack on crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.46	Rating **	M	Issue No.	982 (cont)	
LM End	3.46	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.206726 °	38.206726 °	
				-121.612135 °	-121.612135 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32529						
DS_ID:21028						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe was running during inspection. Crack on crown surface could be associated with pipe vibration during operation. Need to determine owner of crossing. Owner will need to clear vegetation along pipe alignment on landward side to prevent levee inspection along crossing.						
FIELD_STRUCT_DESC: 20-inch pipe through the levee, 2.2 feet below the crown. 1.5-inch electrical conduit along side 20 inch pipe. Pump on platform on waterward side. Walkway present on waterward side. Stand pipe located on landward toe. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.70).						
FS Date: 6/4/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_32529\_58951.jpg



View of waterward side--siphon breaker, walkway, platform, pump, and control panel.

LM Start	3.73	Rating **	U	Issue No.	67
LM End	4.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.202877 °	38.198385 °
				-121.613475 °	-121.615680 °
DWR ID	DWR_RD0501_01_s_2016_67				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
The woody growth of fig trees need to be removed from the shoulder and slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_67\_20160404\_00068.jpg



Looking downstream from the landside shoulder and slope levee mile 3.73 unwanted fig trees.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.14	Rating **	U	Issue No.	69
LM End	4.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.197492 °	38.197160 °
				-121.616340 °	-121.616675 °
DWR ID	DWR_RD0501_01_s_2016_69				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove these wild berries from the landside slope and toe.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_69\_20160404\_00071.jpg



Berry vines present on the toe of the landside slope and toe.

LM Start	4.27	Rating **	M	Issue No.	979
LM End	4.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.196176 °	38.196176 °
				-121.617898 °	-121.617898 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19644 DS_ID:21016 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications. FIELD_STRUCT_DESC: 14-inch pipe through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through existing 14-inch pipe and annular space grouted. 1.5-inch electrical conduit runs parallel along 14-inch pipe. Pump on pile structure in channel. Walkway to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.30). FS Date: 6/4/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19644\_33328.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.27	Rating **	M	Issue No.	979 (cont)	
LM End	4.27	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.196176 °	38.196176 °	
				-121.617898 °	-121.617898 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19644 DS_ID:21016 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications. FIELD_STRUCT_DESC: 14-inch pipe through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through existing 14-inch pipe and annular space grouted. 1.5-inch electrical conduit runs parallel along 14-inch pipe. Pump on pile structure in channel. Walkway to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.30). FS Date: 6/4/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_19644\_33331.jpg



Overview of waterward side--pump station, platform, &amp; power pole.

LM Start	4.34	Rating **	U	Issue No.	992
LM End	4.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195627 °	38.195627 °
				-121.619082 °	-121.619082 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44716 DS_ID:21017 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and open on WS slope. Should be removed or abandoned properly. FIELD_STRUCT_DESC: 2.5-inch steel electrical conduit through the levee 4-feet below the crown. No Location marker on waterward slope. FS Date: 4/21/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_44716\_73901.jpg



2.5-inch conduit visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.34	Rating **	U	Issue No.	992 (cont)
LM End	4.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195627 °	38.195627 °
				-121.619082 °	-121.619082 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44716 DS_ID:21017 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and open on WS slope. Should be removed or abandoned properly. FIELD_STRUCT_DESC: 2.5-inch steel electrical conduit through the levee 4-feet below the crown. No Location marker on waterward slope. FS Date: 4/21/2015					

Photo 2 of 2 : UCIP\_SP\_2016\_44716\_73900.jpg



2.5-inch conduit visible on WS slope.

LM Start	4.38	Rating **	M	Issue No.	19
LM End	4.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195332 °	38.195310 °
				-121.619749 °	-121.619801 °
DWR ID	DWR_RD0501_01_s_2012_19				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

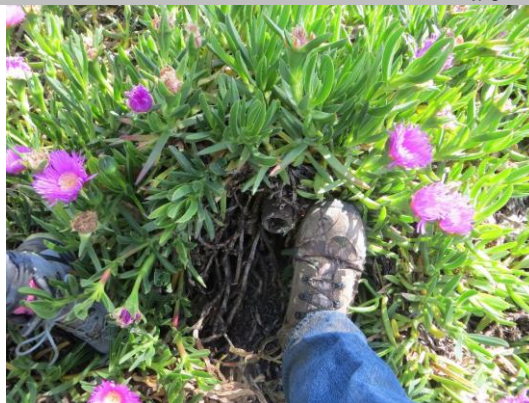
**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.57	Rating **	M	Issue No.	993
LM End	4.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.194438 °	38.194438 °
				-121.623063 °	-121.623063 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44720 DS_ID:21103 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment and if needed abandon it properly. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe through the levee, 3.0 feet below the crown. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.90). A 1.5-inch electrical conduit is visible on the LS slope 3-feet below the crown (good indicator for pipe crossing). FS Date: 4/21/2015					

LM Start	<b>4.57</b>	Rating **	M	Issue No.	<b>993 (cont)</b>
LM End	<b>4.57</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44720\_73904.jpg



Pipe visible on LS slope. Succulants mound up over pipe.

Photo 2 of 2 : UCIP\_SP\_2016\_44720\_73903.jpg



Mound at pipe visible on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.95	Rating **	M	Issue No.	977
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195057 °	38.195068 °
				-121.629965 °	-121.630173 °
DWR ID	DWR_RD0501_01_s_2012_977				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

LM Start	5.04	Rating **	M	Issue No.	994
LM End	5.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195009 °	38.195009 °
				-121.631548 °	-121.631548 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44726					
DS_ID:21018					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Crossing appears abandoned as there are no connections at siphon pump on LS shoulder. If it is abandoned it should be done so properly.					
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe sleeved through a 16-inch steel pipe through the levee, 3-feet below the crown. Annular space grouted. Siphon pump/breaker on landward shoulder. Steel standpipe with slidegate at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.40).					
FS Date: 4/23/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_44726\_73922.jpg



Siphon pump on LS shoulder. No connection at this time.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	5.04	Rating **	M	Issue No.	994 (cont)	
LM End	5.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.195009 °	38.195009 °	
				-121.631548 °	-121.631548 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44726						
DS_ID:21018						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Crossing appears abandoned as there are no connections at siphon pump on LS shoulder. If it is abandoned it should be done so properly.						
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe sleeved through a 16-inch steel pipe through the levee, 3-feet below the crown. Annular space grouted. Siphon pump/breaker on landward shoulder. Steel standpipe with slidegate at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.40).						
FS Date: 4/23/2015						

Photo 2 of 2 : UCIP\_SP\_2016\_44726\_73921.jpg



Steel standpipe and gatevalve on LS toe.

LM Start	5.06	Rating **	A/W	Issue No.	144
LM End	5.15	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195012 °	38.194563 °
				-121.631897 °	-121.633400 °
DWR ID	DWR_RD0501_01_f_2013_144				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	5.08	Rating **	M	Issue No.	45
LM End	5.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194955 °	38.190988 °
				-121.632220 °	-121.641592 °
DWR ID	DWR_RD0501_01_f_2015_45				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

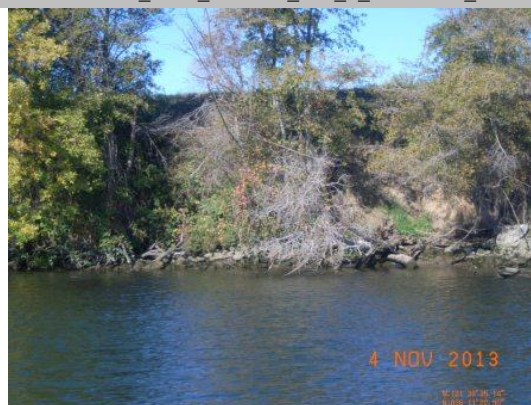
No Photos

LM Start	5.39	Rating **	M	Issue No.	978
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.192878 °	38.192588 °
				-121.637332 °	-121.637802 °
DWR ID	DWR_RD0501_01_f_2013_978				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
The district has scheduled for these trees to be trimmed.					

No Photos

LM Start	5.77	Rating **	M	Issue No.	1
LM End	5.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.190001 °	38.189311 °
				-121.643160 °	-121.643917 °
DWR ID	DWR_RD0501_01_s_2016_1				
Comment Code					
Inspector Comment					
2008 - Overstepped levee section with multiple small pockets of erosion 10 - 20 ft wide. 2013 - Site has fresh erosion and taller vertical sections. 2015: No observed changes. [2015 Site ID: STM_15-7_R]					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_1\_20160223\_00001.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	5.88	Rating **	U	Issue No.	72
LM End	5.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188912 °	38.188380 °
				-121.644687 °	-121.645243 °
DWR ID	DWR_RD0501_01_s_2016_72				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Control the woody tree growth on the landside slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_169\_72\_20160504\_00072.jpg



Looking downstream from the landside slope levee mile 5.88 to 5.93 woody tree growth on the levee section.

LM Start	6.46	Rating **	M	Issue No.	74
LM End	6.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184653 °	38.184442 °
				-121.653422 °	-121.654383 °
DWR ID	DWR_RD0501_01_s_2016_74				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	6.49	Rating **	M	Issue No.	21
LM End	6.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184540 °	38.183924 °
				-121.653865 °	-121.657321 °
DWR ID	DWR_RD0501_01_s_2012_21				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.49	Rating **	M	Issue No.	22
LM End	6.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184539 °	38.183923 °
				-121.653865 °	-121.657321 °
DWR ID	DWR_RD0501_01_s_2012_22				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.66	Rating **	M	Issue No.	983
LM End	6.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.183961 °	38.183961 °
				-121.656860 °	-121.656860 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32530 DS_ID:21020 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: Abandoned 16-inch pipe through the levee, 6.5 feet below the crown. Siphon breaker and service pole on landward shoulder. Electrical box on landside toe. Pump on pile stucture in channel. FS Date: 6/4/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32530\_58957.jpg



Abandoned 16-inch pipe on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.66	Rating **	M	Issue No.	983 (cont)	
LM End	6.66	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.183961 °		38.183961 °
				-121.656860 °		-121.656860 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32530						
DS_ID:21020						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB.						
FIELD_STRUCT_DESC: Abandoned 16-inch pipe through the levee, 6.5 feet below the crown. Siphon breaker and service pole on landward shoulder. Electrical box on landside toe. Pump on pile stucture in channel.						
FS Date: 6/4/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_32530\_58956.jpg



Overview of waterward side--section of pipe visible through dense vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0501 Ryer Island**

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	3.56
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Herman Phillips			
Accompanied By	Nicolas Zepeda RD 501			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.00	Rating **	M	Issue No.	2
LM End	0.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184050 °	38.185178 °
				-121.657713 °	-121.658515 °
DWR ID	DWR_RD0501_02_s _ 2012_2				
Comment Code					
FE : Fence					
Inspector Comment					
This is not a new encroachment.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188260 °	38.188260 °
				-121.648701 °	-121.648700 °
DWR ID	DWR_RD0501_02_s _ 2012_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Mow the tall weeds at toe of levee slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_170\_21\_20160504\_00043.jpg



Looking downstream from levee mile 0.00 at the landside slope tall weeds present on the slope and toe.

LM Start	0.07	Rating **	M	Issue No.	24
LM End	0.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184840 °	38.185368 °
				-121.658525 °	-121.658787 °
DWR ID	DWR_RD0501_02_s _ 2016_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.56	Rating **	M	Issue No.	29
LM End	0.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.191452 °	38.191452 °
				-121.656188 °	-121.656188 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32531 DS_ID:21035 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to determine owner and status of crossing. FIELD_STRUCT_DESC: 10-inch pipe sleeved through a 12-inch pipe through the levee, 5.0 feet below the crown. Pump on waterward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). FS Date: 6/7/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32531\_58960.jpg



View of crown.

LM Start	<b>0.56</b>	Rating **	M	Issue No.	<b>29 (cont)</b>
LM End	<b>0.56</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_32531\_58958.jpg



Overview of waterward side. Inaccessible due to dense vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	30
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195588 °	38.195588 °
				-121.655189 °	-121.655189 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32532  
DS\_ID:21092  
EP\_NO: 3703  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: Deteriorated pipe with holes present at intake. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer used --owner will need coordinate with CVFPB to address crossing. Need to coordinate with DWR Inspector and CVFPB.  
FIELD\_STRUCT\_DESC: 8-inch steel pipe through the levee, 1.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Pipe discharges into concrete sump near landward toe. Pipe is exposed along landward slope. 8-inch pipes are approximately 1 foot apart on landward side. (Permit No. 3703-1961)  
FS Date: 6/7/2013

LM Start	<b>0.86</b>	Rating **	U	Issue No.	<b>30 (cont)</b>
LM End	<b>0.86</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32532\_58967.jpg



Overview of waterward side--20 foot berm present.

Photo 2 of 2 : UCIP\_SP\_2016\_32532\_58965.jpg



View of waterward side. Inspector is standing near exposed section of pipe at levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	31
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195600 °	38.195600 °
				-121.655191 °	-121.655191 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32533  
DS\_ID:21036  
EP\_NO: 1902  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS.  
FIELD\_STRUCT\_DESC: 8-inch steel pipe through the levee, 1.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Pipe discharges into concrete sump near landward toe. Pipe is exposed along landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.90). Section of pipe, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 1902 (1959).  
FS Date: 6/7/2013

LM Start	<b>0.86</b>	Rating **	U	Issue No.	<b>31 (cont)</b>
LM End	<b>0.86</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32533\_58968.jpg



8-inch pipes approximately 1 foot apart.

Photo 2 of 2 : UCIP\_SP\_2016\_32533\_58970.jpg



Overview of waterward side--20 foot berm present.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.04	Rating **	M	Issue No.	10
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.198153 °	38.198153 °
				-121.655614 °	-121.655614 °
DWR ID	DWR_RD0501_02_s_2012_10				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This erosion has not been repaired prior to the fall inspection.					

No Photos

LM Start	1.10	Rating **	M	Issue No.	1
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.199128 °	38.200146 °
				-121.655881 °	-121.655638 °
DWR ID	DWR_RD0501_02_s_2016_1				
Comment Code					
Inspector Comment					
2005 - Large vertical sections due to wave wash. New stone dumped on the bank with exposed geotextile. Cohesive toe has thin weak stratigraphic unit that is washing out. 2006 - Partially repaired, but 100 ft in the middle of the reach has exposed filter fabric and stone riprap is gone. 2010 - Site extended downstream to include new erosion pocket. 2015: No observed changes. [2015 Site ID: CHS_15-9_L]					

Photo 1 of 1 : SP\_2016\_RD0501\_170\_1\_20160223\_00001.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.15	Rating **	M	Issue No.	38
LM End	1.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199816 °	38.199816 °
				-121.655395 °	-121.655395 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44865 DS_ID:21038 EP_NO: 2817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole located on waterward side. FIELD_STRUCT_DESC: 20-inch steel drainpipe sleeved through a 24-inch steel pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Two cutoff collars around the pipe at both shoulders. Pipe exposed along both slopes. Rock revetment on waterward slope. Berm on waterward side is over 20 feet. (Permit No. 2817-1959) FS Date: 6/7/2013					

LM Start	1.15	Rating **	M	Issue No.	38 (cont)
LM End	1.15	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44865\_58975.jpg



View of levee crown at crossings.

Photo 2 of 2 : UCIP\_SP\_2016\_44865\_58972.jpg



View of waterward side--pipe section exposed and siphon breaker. Over 20 feet berm on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.16	Rating **	M	Issue No.	39
LM End	1.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199837 °	38.199837 °
				-121.655391 °	-121.655391 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44866 DS_ID:21094 EP_NO: 14491 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole present on waterward side. FIELD_STRUCT_DESC: 24-inch steel drainpipe through the levee, 4.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterward shoulder. Pump on landward side. (Permit No. 14491-1986) FS Date: 6/7/2013					

LM Start	<b>1.16</b>	Rating **	M	Issue No.	<b>39 (cont)</b>
LM End	<b>1.16</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44866\_58981.jpg



View of downstream crown.

Photo 2 of 2 : UCIP\_SP\_2016\_44866\_58979.jpg



Two pipes on waterside.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.25	Rating **	M	Issue No.	35
LM End	1.25	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.201143 °	38.201143 °
				-121.655169 °	-121.655169 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44753 DS_ID:21085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: Abandoned 20-inch steel pipe through the levee, 15.5 feet below the crown. Pipe exposed along waterward slope, Steel plate welded over end (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.40). FS Date: 4/23/2015					

LM Start	1.25	Rating **	M	Issue No.	35 (cont)
LM End	1.25	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44753\_73955.jpg



20-inch pipe with welded steel plate over end on WS toe.

Photo 2 of 2 : UCIP\_SP\_2016\_44753\_73954.jpg



Hole in pipe at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.70	Rating **	M	Issue No.	40
LM End	1.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.207507 °	38.207507 °
				-121.656219 °	-121.656219 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44867 DS_ID:21093 EP_NO: 13520 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Owner needs to be informed about the vegetation clearance required for proper inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 3.4 feet below the crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe on landward shoulder. Pipe extends from sump off of landward toe. Pipe exposed along waterward slope. Rock revetment on waterward slope. (Permit No. 13520-1982) FS Date: 6/7/2013					

LM Start	<b>1.70</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>1.70</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44867\_58987.jpg



Overview of waterside. Dense vegetation.

Photo 2 of 2 : UCIP\_SP\_2016\_44867\_58982.jpg



View of waterward side--pipe extends from berm to river.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	33
LM End	1.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208874 °	38.208874 °
				-121.655505 °	-121.655505 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:40489  
DS\_ID:21042  
EP\_NO: 15477  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD\_STRUCT\_DESC: 42-inch steel pipe through the levee, 6.5 feet below the crown. Siphon breaker on waterward slope. Pump on the landward side (Permit No. 15477, 1990). Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0).  
FS Date: 6/7/2013

LM Start	<b>1.80</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>1.80</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_40489\_33358.jpg



Overview of crown, looking downstream.

Photo 2 of 2 : UCIP\_SP\_2016\_40489\_33359.jpg



One 42-inch steel pipe with siphon break on waterside slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.81	Rating **	M	Issue No.	36
LM End	1.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208998 °	38.208998 °
				-121.655575 °	-121.655575 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:47049  
DS\_ID:21091  
EP\_NO: 15477  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 2 of 2: 36-inch steel pipe through the levee, 7.0 feet below the crown. Siphon breaker on waterward shoulder. Pumps on landward side. Pipe exposed along both slopes. Pipe supports at levee shoulders, were cutoff walls from pre-existing pipe (Permit No. 15477-1990) Dual 36-inch pipes are approximately 36-inches apart.  
FS Date: 6/7/2013

LM Start	<b>1.81</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>1.81</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47049\_33378.jpg



Overview of crown, looking downstream

Photo 2 of 2 : UCIP\_SP\_2016\_47049\_33373.jpg



Overview of dual pipes on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	37
LM End	1.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.209009 °	38.209009 °
				-121.655585 °	-121.655585 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47050 DS_ID:21084 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel pipe through the levee, 7.0 feet below the crown. Siphon breaker on waterward shoulder. Pumps on landward side. Pipe exposed along both slopes. Pipe supports at levee shoulders, were cutoff walls from pre-existing pipe. (Permit No. 15477-1990) Pipes are approximately 36 inches apart. FS Date: 6/7/2013					

LM Start	<b>1.82</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>1.82</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_47050\_33371.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_47050\_33372.jpg



Overview of waterward side--3 crossings visible 1-42 inch pipe and 2-36 inch pipes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.44	Rating **	M	Issue No.	32
LM End	2.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213390 °	38.213390 °
				-121.665104 °	-121.665104 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32537 DS_ID:21044 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 6.2 feet below the crown. Siphon breaker on waterward shoulder. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.60). Pipe was repaired in 1984 under Permit No. 13937. The repair consisted of replacing the pipeline within the levee crown with new soil proofed steel pipe. FS Date: 6/7/2013					

LM Start	<b>2.44</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>2.44</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32537\_58989.jpg



View of levee crown--narrow road.

Photo 2 of 2 : UCIP\_SP\_2016\_32537\_58990.jpg



Photo taken just downstream of crossing looking at waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.49	Rating **	U	Issue No.	27
LM End	3.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.213868 °	38.225330 °
				-121.665767 °	-121.672805 °
DWR ID	DWR_RD0501_02_s_2016_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild berries from the levee section landward.					

Photo 1 of 1 : SP\_2016\_RD0501\_170\_27\_20160504\_00042.jpg



Standing at levee mile 2.49-3.38 looking downstream landside slope and toe wild berries present on the slope and toe.

LM Start	2.80	Rating **	M	Issue No.	34
LM End	2.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.217579 °	38.217579 °
				-121.668963 °	-121.668963 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44872 DS_ID:21045 EP_NO: 4733 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Rock revetment on waterward slope. 16-inch pipe welded to 18-inch pipe near landward shoulder, extends down landward slope. Pipe exposed along both slopes. (Permit No. 4733-1964) FS Date: 6/7/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_44872\_33392.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.80	Rating **	M	Issue No.	34 (cont)	
LM End	2.80	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.217579 °		38.217579 °
				-121.668963 °		-121.668963 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44872 DS_ID:21045 EP_NO: 4733 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Rock revetment on waterward slope. 16-inch pipe welded to 18-inch pipe near landward shoulder, extends down landward slope. Pipe exposed along both slopes. (Permit No. 4733-1964) FS Date: 6/7/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_44872\_33393.jpg



Dense vegetation hindered inspection on waterward side.

LM Start	2.90	Rating **	M	Issue No.	4
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.218890 °	38.218997 °
				-121.669934 °	-121.669988 °
DWR ID	DWR_RD0501_02_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.07	Rating **	M	Issue No.	28
LM End	3.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221090 °	38.221090 °
				-121.671384 °	-121.671384 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:19657  
DS\_ID:21046  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 16-inch pipe sleeved through a 20-inch pipe through the levee, 4.7 feet below the crown. Annular gap grouted. Siphon breaker on landward shoulder. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.30). The 16-inch pipe was sleeved through pre-existing pipe under Permit No. 2645 (1959).  
FS Date: 8/22/2013

LM Start	<b>3.07</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>3.07</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_19657\_33396.jpg



Dense vegetation along the crown hinge point and beginning section of waterward slope.

Photo 2 of 2 : UCIP\_SP\_2016\_19657\_33400.jpg



Dense vegetation along the upper portion of the waterward slope prevents proper inspection of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.41	Rating **	M	Issue No.	16
LM End	3.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225823 °	38.225823 °
				-121.672837 °	-121.672837 °
DWR ID	DWR_RD0501_02_s _ 2012_16				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up the tree on the landside slope.					

No Photos

LM Start	3.42	Rating **	M	Issue No.	18
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225987 °	38.225987 °
				-121.672870 °	-121.672870 °
DWR ID	DWR_RD0501_02_s _ 2012_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up tree on the landside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0501 Ryer Island**

Waterway			Bank	Unit Miles
Unit No. 03 Miner Slough			Left	7.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Herman Phillips			
Accompanied By	Nicolas Zepeda RD 501			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.00	Rating **	U	Issue No.	34
LM End	0.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.227957 °	38.238723 °
				-121.673078 °	-121.664853 °
DWR ID	DWR_RD0501_03_s_2016_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the wild weed growth on the landward levee slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_171\_34\_20160504\_00065.jpg



Looking downstream from levee mile 0.00 Unit 3 landside tall mustards and other wild present on the slope and toe.

LM Start	0.00	Rating **	U	Issue No.	32
LM End	2.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.227957 °	38.261668 °
				-121.673078 °	-121.649473 °
DWR ID	DWR_RD0501_03_s_2016_32				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the wild growth of weeds and other vegetation on the waterside slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_171\_32\_20160504\_00066.jpg



Looking downstream from levee mile 0.00 to 2.99, tall weeds and wild growth present on the levee slope and shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.62	Rating **	M	Issue No.	144
LM End	0.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.234679 °	38.234679 °
				-121.665417 °	-121.665417 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44873 DS_ID:21065 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump operating during inspection. Need to determine owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 6.3 feet below the crown instead of 16-inch pipe mentioned in O&M. Siphon breaker on landward slope. Pipe exposed on both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.70). FS Date: 6/7/2013					

LM Start	<b>0.62</b>	Rating **	M	Issue No.	<b>144 (cont)</b>
LM End	<b>0.62</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44873\_33405.jpg



Overview of waterward side. Dense vegetation limits proper inspection.

Photo 2 of 2 : UCIP\_SP\_2016\_44873\_33402.jpg



Conditions of waterward slope--dense vegetation along slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.35	Rating **	M	Issue No.	154
LM End	1.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.242879 °	38.242879 °
				-121.659450 °	-121.659450 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44728					
DS_ID:21066					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly. Wooden walkway to pier in disrepair and a hazard.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 8.0-feet below the crown. Siphon breaker on landward slope. Pump on pipe structure in stream. Concrete standpipe and distribution slide gates at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.50). 1.5-inch electrical conduit at same location.					
FS Date: 6/7/2013					

LM Start	1.35	Rating **	M	Issue No.	154 (cont)
LM End	1.35	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44728\_73924.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Standpipe visible at LS toe.

Photo 2 of 2 : UCIP\_SP\_2016\_44728\_73923.jpg



Pump on wooden pier off WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.88	Rating **	M	Issue No.	152
LM End	1.88	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249362 °	38.249362 °
				-121.656357 °	-121.656357 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43503 DS_ID:21068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 6.3 feet below the crown. Pump, gate valve and switch box on waterward slope. Originally reported as 3.8-feet below crown in O+M manual, 1959 at HLM: 2.0. FS Date: 6/7/2013					

LM Start	<b>1.88</b>	Rating **	M	Issue No.	<b>152 (cont)</b>
LM End	<b>1.88</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_43503\_33410.jpg



Overview of waterward side. Pipe is completely obstructed by dense vegetation.

Photo 2 of 2 : UCIP\_SP\_2016\_43503\_33411.jpg



Overview of landward side. Pipe is visible however dense vegetation limits proper inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.16	Rating **	M	Issue No.	128
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.253373 °	38.257400 °
				-121.655548 °	-121.651536 °
DWR ID	DWR_RD0501_03_f_2013_128				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.25	Rating **	U	Issue No.	35
LM End	3.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.254328 °	38.262442 °
				-121.654775 °	-121.648140 °
DWR ID	DWR_RD0501_03_s_2016_35				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the wild growth of milkweeds from the levee section.					

Photo 1 of 1 : SP\_2016\_RD0501\_171\_35\_20160505\_00067.jpg



Looking downstream from levee miles 2.25-3.08 large milkweeds present on the landward slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.52	Rating **	M	Issue No.	131
LM End	2.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256255 °	38.256255 °
				-121.651551 °	-121.651551 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18945 DS_ID:21047 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine owner of structure. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.3 feet below the crown. Gate valve and switch box on landward slope. Pipe exposed on both slopes. (USACE-1959) Riprap on waterward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70). FS Date: 6/7/2013					

LM Start	<b>2.52</b>	Rating **	M	Issue No.	<b>131 (cont)</b>
LM End	<b>2.52</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_18945\_31607.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_18945\_31609.jpg



Overview of waterward side. Pipe is mostly buried through waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.61	Rating **	M	Issue No.	3
LM End	2.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.257445 °	38.258759 °
				-121.651437 °	-121.651449 °
DWR ID	DWR_RD0501_03_s _ 2012_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.79	Rating **	M	Issue No.	130
LM End	3.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.260118 °	38.262839 °
				-121.651351 °	-121.647722 °
DWR ID	DWR_RD0501_03_s _ 2014_130				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up the trees on the landside slope.					

No Photos

LM Start	2.99	Rating **	M	Issue No.	13
LM End	7.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261668 °	38.285653 °
				-121.649470 °	-121.606479 °
DWR ID	DWR_RD0501_03_s _ 2013_13				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control the weeds on the waterside levee slope at the listed locations.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.51	Rating **	M	Issue No.	135
LM End	3.51	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.266187 °	38.266187 °
				-121.641909 °	-121.641909 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32538					
DS_ID:21048					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find owner of crossing and determine if permit number is available.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Pump on pile structure in stream. Service pole on landward slope. Concrete standpipe at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.80).					
FS Date: 6/7/2013					

LM Start	<b>3.51</b>	Rating **	M	Issue No.	<b>135 (cont)</b>
LM End	<b>3.51</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32538\_58994.jpg



Photo taken downstream of structure.

Photo 2 of 2 : UCIP\_SP\_2016\_32538\_58999.jpg



View of waterward side. Dense vegetation throughout waterward side. Walkway visible and support piles.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.55	Rating **	M	Issue No.	15
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.266666 °	38.266857 °
				-121.641475 °	-121.641280 °
DWR ID	DWR_RD0501_03_s_2012_15				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up tree on landside slope.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	143
LM End	3.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267490 °	38.267490 °
				-121.640749 °	-121.640749 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46768 DS_ID:21049 EP_NO: 1557 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned--wooden platform structure appears to be abandoned on waterward side. Small hole underneath pipe on landward side--unable to determine cause (rodent/pipe leak) Need to find owner of crossing to determine status. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.90). Permit No. 1557, 1951). FS Date: 6/7/2013					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.62	Rating **	M	Issue No.	22
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.267485 °	38.267578 °
				-121.640667 °	-121.640507 °
DWR ID	DWR_RD0501_03_s_2012_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Wild growth has completely covered the slope on landside. The District has started removing some of this brush, more needs to be removed.					

No Photos

LM Start	3.65	Rating **	M	Issue No.	136
LM End	3.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267818 °	38.267818 °
				-121.640521 °	-121.640521 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32540 DS_ID:21050 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If structure is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: Abandoned 5.5 x 5.5 foot concrete tunnel through the levee, 6.5 feet below the crown. FS Date: 6/7/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32540\_59007.jpg



View of narrow levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.66	Rating **	U	Issue No.	148 (cont)
LM End	3.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268003 °	38.268003 °
				-121.640474 °	-121.640474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44743 DS_ID:21051 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete deteriorating. Pipe open on both ends. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 5.5 x 6.0 foot concrete tunnel through the levee, 2.5-feet below the crown. FS Date: 4/23/2015					

Photo 2 of 2 : UCIP\_SP\_2016\_44743\_73941.jpg



Concrete tunnel and wingwalls visible on WS slope.

LM Start	3.68	Rating **	M	Issue No.	132
LM End	3.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268278 °	38.268278 °
				-121.640377 °	-121.640377 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19662 DS_ID:21052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to abandon structure properly--contact owner. Also if crossing is still in use--recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 36-inch pipe through the levee, 5.0 feet below the crown. Grain loading auger sleeved through the pipe. Grain loading system on platform in channel. (Permit No. 1503, 1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). FS Date: 6/7/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19662\_33420.jpg



View of waterward side. Pipe visible through dense vegetation.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.68	Rating **	M	Issue No.	132 (cont)	
LM End	3.68	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.268278 °		38.268278 °
				-121.640377 °		-121.640377 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19662 DS_ID:21052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to abandon structure properly--contact owner. Also if crossing is still in use--recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 36-inch pipe through the levee, 5.0 feet below the crown. Grain loading auger sleeved through the pipe. Grain loading system on platform in channel. (Permit No. 1503, 1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). FS Date: 6/7/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_19662\_33418.jpg



Dense vegetation along the pipe alignment and throughout waterward slope.

LM Start	3.70	Rating **	M	Issue No.	153
LM End	3.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268570 °	38.268570 °
				-121.640408 °	-121.640408 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43524					
DS_ID:21053					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to					
proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below					
the crown. Pump in pump house on waterward slope. (USACE-1959).					
This entry matches the Drainage or Irrigation Structure referenced in					
O&M manual (HLM 4.00). (Permit No. 1557, 1951).					
FS Date: 6/7/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_43524\_33425.jpg



View of waterward side. Dense vegetation limits inspections. Signs of structure visible highlighted by red box.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	3.70	Rating **	M	Issue No.	153 (cont)	
LM End	3.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.268570 °		38.268570 °
				-121.640408 °		-121.640408 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43524 DS_ID:21053 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). (Permit No. 1557, 1951). FS Date: 6/7/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_43524\_33424.jpg



View of landward side. Pipe visible.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.30	Rating **	M	Issue No.	145
LM End	4.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275862 °	38.275862 °
				-121.638709 °	-121.638709 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:44876  
DS\_ID:21069  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Damage to levee shoulder. Crossing appears to be still be in use--need to contact owner to inform about maintenance issues. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 24-inch pipe through the levee, 6.5 feet below the crown. Cutoff wall around pipe at waterward shoulder. Siphon breaker on apex of pipe at landward shoulder. Pump in pump house on landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.60). 18-inch steel pipe sleeved through the 24-inch pipe under Permit No. 2496 (1957). Annular gap grouted.  
FS Date: 6/7/2013

LM Start	<b>4.30</b>	Rating **	M	Issue No.	<b>145 (cont)</b>
LM End	<b>4.30</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44876\_33427.jpg



Line cracks along crown near crown hinge point on waterward side.

Photo 2 of 2 : UCIP\_SP\_2016\_44876\_33428.jpg



View of waterward slope. Dense vegetation along slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.31	Rating **	M	Issue No.	149
LM End	4.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275955 °	38.275955 °
				-121.638626 °	-121.638626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44746					
DS_ID:21107					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to verify type of abandonment.					
FIELD_STRUCT_DESC: *ABANDONED* 10-inch pipe through the					
levee, 4.8 feet below the crown. 34-inch concrete standpipe on LS toe.					
10-inch diameter hole in standpipe where abandoned pipe once					
connected (USACE-1959). This entry matches the Drainage or					
Irrigation Structure referenced in O&M manual (HLM 4.60).					
FS Date: 4/23/2015					

LM Start	<b>4.31</b>	Rating **	M	Issue No.	<b>149 (cont)</b>
LM End	<b>4.31</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44746\_73944.jpg



34-inch diameter concrete standpipe at LS toe.

Photo 2 of 2 : UCIP\_SP\_2016\_44746\_73943.jpg



10-inch diameter hole cut in side of standpipe where pipe once was installed.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.75	Rating **	M	Issue No.	137
LM End	4.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.281041 °	38.281041 °
				-121.640904 °	-121.640904 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32541  
DS\_ID:21071  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: --Contact owner--Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway and siphon breaker not found.  
FIELD\_STRUCT\_DESC: 12-inch concrete pipe through the levee, 2.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at shoulder. Pump on pile structure in stream. Walkway access to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.10).  
FS Date: 6/7/2013

LM Start	<b>4.75</b>	Rating **	M	Issue No.	<b>137 (cont)</b>
LM End	<b>4.75</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_32541\_59008.jpg



View of waterward side. Pump located on pile structure in stream.

Photo 2 of 2 : UCIP\_SP\_2016\_32541\_59009.jpg



View of landward side. Power source and control box on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	4.90	Rating **	U	Issue No.	36
LM End	6.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.282157 °	38.290150 °
				-121.643133 °	-121.626158 °
DWR ID	DWR_RD0501_03_s_2016_36				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This Agave Americana, common name century plant is a fast growing plant that shouldn't be allowed to grow on the levee system. You can't have an effective Flood Fight near this plant growth. Other wild growth of weeds need to be removed.					

No Photos

LM Start	5.43	Rating **	M	Issue No.	146
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288951 °	38.288951 °
				-121.644223 °	-121.644223 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44877 DS_ID:21055 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 1.8-feet below the crown. Pump on pile structure in stream. Pipe exposed on landward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.90). FS Date: 4/23/2015					

Photo 1 of 2 : UCIP\_SP\_2016\_44877\_73946.jpg



Buried pipe exposed in trench 8-feet downstream from visible pipe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	5.43	Rating **	M	Issue No.	146 (cont)
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288951 °	38.288951 °
				-121.644223 °	-121.644223 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44877 DS_ID:21055 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 1.8-feet below the crown. Pump on pile structure in stream. Pipe exposed on landward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.90). FS Date: 4/23/2015					

Photo 2 of 2 : UCIP\_SP\_2016\_44877\_73945.jpg



Cut in buried pipe on LS shoulder.

LM Start	5.43	Rating **	M	Issue No.	133
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288950 °	38.288950 °
				-121.644183 °	-121.644183 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19666 DS_ID:21054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 3.0 feet below the crown. Pump on pile structure in stream. FS Date: 6/7/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19666\_33435.jpg



Overview of waterward side. Control box located near levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	5.43	Rating **	M	Issue No.	133 (cont)
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288950 °	38.288950 °
				-121.644183 °	-121.644183 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19666 DS_ID:21054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 3.0 feet below the crown. Pump on pile structure in stream. FS Date: 6/7/2013					

Photo 2 of 2 : UCIP\_SP\_2016\_19666\_33434.jpg



Structure visible through the dense vegetation. Limited access unable to inspect.

LM Start	6.39	Rating **	M	Issue No.	138
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290373 °	38.290373 °
				-121.627633 °	-121.627633 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32542 DS_ID:21059 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine status of crossing. Horizontal and vertical cracks present on stand pipe located on landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 6.0 feet below the crown. 2-inch conduit line through levee. Pump and gate valve on waterward slope. Pipe exposed on landward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32542\_59022.jpg



Overview of levee crown at crossing.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.39	Rating **	M	Issue No.	138 (cont)
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290373 °	38.290373 °
				-121.627633 °	-121.627633 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32542					
DS_ID:21059					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to determine status of crossing. Horizontal and vertical cracks present on stand pipe located on landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 6.0 feet below the crown. 2-inch conduit line through levee. Pump and gate valve on waterward slope. Pipe exposed on landward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).					
FS Date: 6/13/2013					

Photo 2 of 2 : UCIP\_SP\_2016\_32542\_59023.jpg



View of waterward side. Dense vegetation along levee slope.

LM Start	6.40	Rating **	M	Issue No.	147
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627488 °	-121.627488 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42118 DS_ID:24054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine encroachment number issued for pipe installation. FIELD_STRUCT_DESC: Gasline through levee at an angle with unknown depth. Markers visible on both sides. FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42118\_72902.jpg



Markers visible on waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2016

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	147 (cont)
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356°	38.290356°
				-121.627488°	-121.627488°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42118 DS_ID:24054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine encroachment number issued for pipe installation. FIELD_STRUCT_DESC: Gasline through levee at an angle with unknown depth. Markers visible on both sides. FS Date: 6/13/2013					

Photo 2 of 2 : UCIP\_SP\_2016\_42118\_72901.jpg



Marker visible on landward side.

LM Start	6.40	Rating **	M	Issue No.	134
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290351 °	38.290351 °
				-121.627452 °	-121.627452 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19668 DS_ID:21057 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing was operating during inspection; Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 1 of 2: 30-inch steel pipe through the levee, 9.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at landward slope. Primer tanks on landward slope. Pipe exposed on both slopes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). Pipe installed under Permit No. 611 in 1934. Section of pipe between shoulders removed and replaced with 30-inch steel pipe under Permit No. 2497 (1959). FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19668\_33446.jpg



Overview of levee crown--multiple crossings within a 50 foot stretch.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	134 (cont)
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290351 °	38.290351 °
				-121.627452 °	-121.627452 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19668 DS_ID:21057 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing was operating during inspection; Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 1 of 2: 30-inch steel pipe through the levee, 9.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at landward slope. Primer tanks on landward slope. Pipe exposed on both slopes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). Pipe installed under Permit No. 611 in 1934. Section of pipe between shoulders removed and replaced with 30-inch steel pipe under Permit No. 2497 (1959). FS Date: 6/13/2013					

Photo 2 of 2 : UCIP\_SP\_2016\_19668\_33443.jpg



View of waterward side. Metal posts near the levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	139
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290345 °	38.290345 °
				-121.627401 °	-121.627401 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32543  
DS\_ID:21058  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find pipe owner. Unable to determine status of crossing.  
FIELD\_STRUCT\_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Surge chamber at landward toe. Pump near waterward toe. Pipe exposed on landward side. (USACE-1959). Concrete platform 4 feet by 3 feet located on landward toe. 3-inch conduit runs along 8-inch steel pipe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).  
FS Date: 6/13/2013

LM Start	<b>6.41</b>	Rating **	M	Issue No.	<b>139 (cont)</b>
LM End	<b>6.41</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_32543\_59025.jpg



Overview of levee crown--multiple crossings within 50 foot stretch.

Photo 2 of 2 : UCIP\_SP\_2016\_32543\_59027.jpg



View levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	150
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627349 °	-121.627349 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44748					
DS_ID:21027					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 2 of 2: 4-inch steel pipe through the levee, 7.3 feet below the crown. (USACE-1959). Pipe visible on upstream side of wooden platform of WS slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).					
FS Date: 4/23/2015					

LM Start	<b>6.41</b>	Rating **	M	Issue No.	<b>150 (cont)</b>
LM End	<b>6.41</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44748\_73948.jpg



4-inch pipe connected to smaller galvanized iron pipe on WS slope.

Photo 2 of 2 : UCIP\_SP\_2016\_44748\_73947.jpg



Pipe visible on upstream side of wooden platform on the WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	6.81	Rating **	M	Issue No.	140
LM End	6.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290130 °	38.290130 °
				-121.620168 °	-121.620168 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32544 DS_ID:21060 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 6.5 feet below the crown. Switch panel on waterward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.30). FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32544\_59034.jpg



View of waterward side. Support piles, conduit line, and pump visible on waterward side. Dense vegetation covers waterward slope.

LM Start	<b>6.81</b>	Rating **	M	Issue No.	<b>140 (cont)</b>
LM End	<b>6.81</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_32544\_59033.jpg



View of standpipes located on landward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	7.09	Rating **	M	Issue No.	40
LM End	7.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.288930 °	38.285537 °
				-121.615298 °	-121.606138 °
DWR ID	DWR_RD0501_03_s_2016_40				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	7.22	Rating **	M	Issue No.	151
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.287837 °	38.287837 °
				-121.613453 °	-121.613453 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46834 DS_ID:21061 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on landward slope. 2-inch conduit runs parallel to 8-inch steel pipe. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.00). FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_46834\_33471.jpg



Overview of levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	7.22	Rating **	M	Issue No.	151 (cont)	
LM End	7.22	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.287837 °	38.287837 °	
				-121.613453 °	-121.613453 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46834 DS_ID:21061 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on landward slope. 2-inch conduit runs parallel to 8-inch steel pipe. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.00). FS Date: 6/13/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_46834\_33468.jpg



Pipe connection after pump station.

LM Start	7.55	Rating **	M	Issue No.	33
LM End	7.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.286653 °	38.286342 °
				-121.608398 °	-121.608183 °
DWR ID	DWR_RD0501_03_s_2012_33				
Comment Code					
V6 : Landscaping					
Inspector Comment					
The landowner needs to maintain this landscaping.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	7.59	Rating **	U	Issue No.	141
LM End	7.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286153 °	38.286153 °
				-121.607959 °	-121.607959 °
DWR ID					

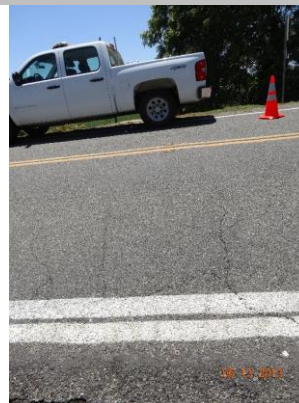
**Comment Code**

**Inspector Comment**

FS\_ID:32545  
DS\_ID:21063  
EP\_NO: 11812  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: Open cut section of levee on LS slope 8 foot wide-- repair work needed. Abandoned pump on waterward berm. Dense vegetation--Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances on waterward side.  
FIELD\_STRUCT\_DESC: 14-inch steel pipe and 1.25-inch electrical conduit through the levee, both 3.0 feet below the crown. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landward shoulder. Slant pump on waterward slope. Discharge structure at landward toe. Rock revetment on waterward slope. (Permit No. 11812-1976)  
FS Date: 6/7/2013

LM Start	<b>7.59</b>	Rating **	U	Issue No.	<b>141 (cont)</b>
LM End	<b>7.59</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_32545\_59039.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32545\_59042.jpg



View of waterward side--pump located at the berm edge.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

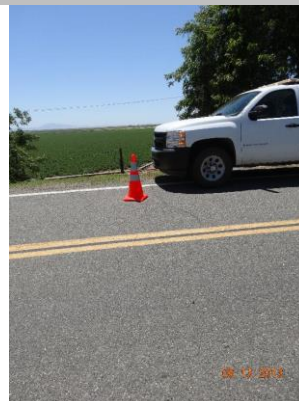
**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	7.60	Rating **	M	Issue No.	142
LM End	7.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286134 °	38.286134 °
				-121.607920 °	-121.607920 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32546 DS_ID:21064 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris (pipe section) located on waterward berm. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 2.7 feet below the crown. Pump in pump house at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.20). FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32546\_59047.jpg



View of levee crown at crossing.

LM Start	<b>7.60</b>	Rating **	M	Issue No.	<b>142 (cont)</b>
LM End	<b>7.60</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_32546\_59048.jpg



View of waterward side--dense vegetation limits visibility of 8-inch steel pipe. Pump belongs to another crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/24/2016 03/24/2016	Herman Phillips

LM Start	7.65	Rating **	U	Issue No.	41
LM End	7.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285813 °	38.285537 °
				-121.607003 °	-121.606138 °
DWR ID	DWR_RD0501_03_s_2016_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
This plant growth listed at this location needs to be controlled. This type of plants grows very fast and will completely cover the levee section. (Agave Americana) common names century plant, maguey, or American aloe.					

Photo 1 of 1 : SP\_2016\_RD0501\_171\_41\_20160505\_00068.jpg



Looking downstream from levee mile 7.65-7.70 wild plant growth covering the landside shoulder and slope.

LM Start	7.71	Rating **	M	Issue No.	4
LM End	7.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.286134 °	38.286134 °
				-121.607920 °	-121.607920 °
DWR ID	DWR_RD0501_03_f_2015_4				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0501 Ryer Island**

Waterway			Bank	Unit Miles
Unit No. 04 Sutter Slough			Right	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Herman Phillips			
Accompanied By	Nicolas Zepeda RD 501			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	14
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285493 °	38.255978 °
				-121.606042 °	-121.601013 °
DWR ID	DWR_RD0501_04_s_2016_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Levee section looks good from 0.00 - 2.17 landside slope.					

Photo 1 of 1 : SP\_2016\_RD0501\_172\_14\_20160505\_00028.jpg



Looking downstream from levee mile 0.00 - 2.17 landside of Unit 4.

LM Start	0.03	Rating **	M	Issue No.	15
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285177 °	38.255978 °
				-121.605650 °	-121.601013 °
DWR ID	DWR_RD0501_04_s_2016_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>17</b>
LM End	<b>0.54</b>	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.278848 °	38.278848 °	
			-121.601216 °	-121.601216 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32547  
DS\_ID:21080  
EP\_NO: 18135  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 10-inch iron pipe through the levee, 3.5 feet below the crown. Cutoff wall around pipe at landward shoulder. Slant pump and pump house on waterward slope. Concrete standpipe and power pole at landward toe. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 2446-1957) Section of pipe under levee crown, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 18135 (2006). Two crossings nearby 10-inch pipe and 8-inch pipe crossings are approximately 5 feet apart.  
FS Date: 6/7/2013

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.54</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32547\_59050.jpg



View of levee crown.

Photo 2 of 2 : UCIP\_SP\_2016\_32547\_59051.jpg



Overview of waterward side--2 crossings located within 5 feet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	18
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278831 °	38.278831 °
				-121.601213 °	-121.601213 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32548  
DS\_ID:21079  
EP\_NO: 2446  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Permit documents indicate that pipe does not appear to be properly grouted. Crossing needs to be properly abandoned per CVFPB Title 23--need to find owner. Also recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: Abandoned 8-inch steel pipe through the levee, 6.0 feet below the crown. Pump on waterward side. Steel plate welded on waterward end. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). Pipe was abandoned under Permit No. 2446 (1957). 10-inch steel pipe is located approximately 5 feet downstream.  
FS Date: 6/13/2013

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>0.54</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32548\_59057.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32548\_59058.jpg



Overview of waterward side. Two crossings, 10 inch and 8 inch pipelines, less than 5 feet apart.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.04	Rating **	U	Issue No.	19
LM End	1.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.272053 °	38.272053 °
				-121.604176 °	-121.604176 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32549 DS_ID:21072 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe has deteriorated-holes present on landward side. Need to contact owner. Unable to determine if crossing is still being used. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Pump on waterward side. Steel plate welded on waterward end. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.10). FS Date: 6/13/2013					

LM Start	<b>1.04</b>	Rating **	U	Issue No.	<b>19 (cont)</b>
LM End	<b>1.04</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32549\_59065.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32549\_59066.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.08	Rating **	M	Issue No.	20
LM End	1.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.271400 °	38.271400 °
				-121.604368 °	-121.604368 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32550  
DS\_ID:21073  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: Unable to determine if the pipe goes through the levee. need As-Built drawings; Need owner information.  
FIELD\_STRUCT\_DESC: 1.5-inch conduit through the levee, 2.0 feet below the crown. Pole and anchor on landward slope.  
FS Date: 6/13/2013

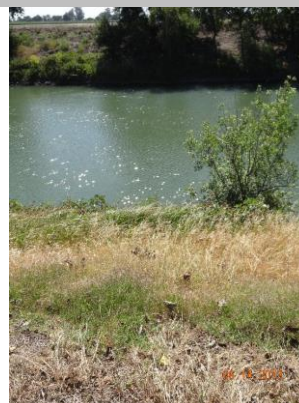
LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>20 (cont)</b>
LM End	<b>1.08</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32550\_59068.jpg



Levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32550\_59067.jpg



View of waterward side.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	21
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270171 °	38.270171 °
				-121.604403 °	-121.604403 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32551					
DS_ID:21074					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Unable to determine status of crossing. Pipe visible on waterward side--could be the pipe that was supposed to be removed under permit number 13983 (1985). Also present is a 1.5 inch conduit along the 8 inch pipe. Need to coordinate with owner.					
FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 6.4 feet below the crown. Pump on pile structure in stream. Service pole on landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.30). Pipe should have been removed and replaced with 12-inch pipe under Permit No. 13983 (1985).					
FS Date: 6/13/2013					

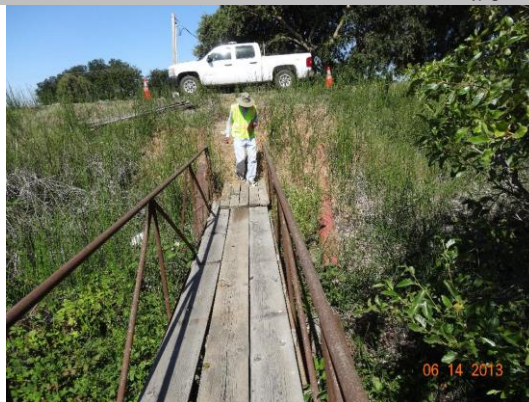
LM Start	<b>1.17</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>1.17</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32551\_59070.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32551\_59072.jpg



Abandoned pipe to the right of walkway.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	22
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270156 °	38.270156 °
				-121.604403 °	-121.604403 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32552 DS_ID:21095 EP_NO: 13983 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe was to be removed during the installation of new 12-inch pipe crossing. Need to contact pipe owner. Unable to confirm crossing--need additional records for crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump on pile structure in stream. Service pole on landward slope. Pipe connects to 10-inch steel pipe along the landward slope at the shoulder, and similarly to pre-existing 8-inch pipe on the watereward side. (Permit No. 13983-1985) FS Date: 6/13/2013					

LM Start	<b>1.17</b>	Rating **	M	Issue No.	<b>22 (cont)</b>
LM End	<b>1.17</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_32552\_59073.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32552\_59076.jpg



View of waterward side--walkway, pump, conduit, and pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.74	Rating **	M	Issue No.	24
LM End	1.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.262165 °	38.262165 °
				-121.601691 °	-121.601691 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44471 DS_ID:21076 EP_NO: 16906 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing was running during site inspection. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.2 feet below the crown. Pump on pile structure in stream. Concrete standpipe on landward side. Pipe is exposed on landward slope. (Permit No. 16906-1999) Two conduits present 3 inch conduit disconnected and 1.5 inch electrical conduit appears to be active. FS Date: 6/13/2013					

LM Start	<b>1.74</b>	Rating **	M	Issue No.	<b>24 (cont)</b>
LM End	<b>1.74</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_44471\_33491.jpg



Waterward side-pipe along slope.

Photo 2 of 2 : UCIP\_SP\_2016\_44471\_33495.jpg



Pipe section reduced at the waterward side daylight.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	8
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261283 °	38.261032 °
				-121.601488 °	-121.601635 °
DWR ID	DWR_RD0501_04_s_2012_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	1.86	Rating **	M	Issue No.	23
LM End	1.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260407 °	38.260407 °
				-121.601365 °	-121.601365 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32553 DS_ID:21077 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown. 2 inch conduit goes through levee. Siphon breaker on landward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 6/13/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_32553\_59082.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	1.86	Rating **	M	Issue No.	23 (cont)	
LM End	1.86	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.260407 °		38.260407 °
				-121.601365 °		-121.601365 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32553						
DS_ID:21077						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to						
identify signs of pipe failure (leaks) along the waterward and landward						
slope. Recommend removing vegetation along pipe alignment to						
conduct proper inspection of structure and appurtenances.						
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet						
below the crown. 2 inch conduit goes through levee. Siphon breaker on						
landward slope. Pump on pile structure in stream. (USACE-1959). This						
entry matches the Drainage or Irrigation Structure referenced in O&M						
manual (HLM 2.0).						
FS Date: 6/13/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_32553\_59081.jpg



View of waterward side.

LM Start	2.15	Rating **	M	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256275 °	38.255990 °
				-121.600933 °	-121.601015 °
DWR ID	DWR_RD0501_04_s_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0501 Ryer Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/24/2016 03/24/2016	Herman Phillips

LM Start	2.16	Rating **	M	Issue No.	16
LM End	2.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256225 °	38.256225 °
				-121.600903 °	-121.600903 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:32863  
DS\_ID:21078  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterwar slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: Abandoned 6-inch and working 6-inch steel pipes through the levee, 2.5 and 5.0 feet below the crown, respectively. 1.5 inch electrical conduit through levee. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30). Pipes are within 5 feet.  
FS Date: 6/13/2013

LM Start	<b>2.16</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>2.16</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_32863\_59483.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP\_SP\_2016\_32863\_59484.jpg



View of waterward side with dense vegetation along slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	